

1599649

https://www.phoenixcontact.com/us/products/1599649

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



M23, Cable connector, series: RC, straight, shielded: no, Screw locking mechanism, No. of pos.: 12, Direction of rotation: Counter direction, contact connection type: Socket, Solder cup, coding: N

Commercial data

Item number	1599649
Packing unit	20 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	ABRAFA
GTIN	4046356226615
Weight per piece (including packing)	110 g
Weight per piece (excluding packing)	110 g
Country of origin	DE



1599649

https://www.phoenixcontact.com/us/products/1599649

Technical data

Product properties

Product type	Circular connector (cable-side)
Froduct type	Circular connector (cable-side)

Connector

Insulating body

Coding N Contact material CuZn Contact surface material Ni/Au Insertion/withdrawal cycles 50 Connection method Solder cup Contact switching type Socket Application Signal Number of positions 12 Direction of rotation Counter direction Connection profile 12 Number Contact (Contact group 1) 12 Diameter Contact (Contact group 1) 1 mm Litz wire cross-section min. Contact (Contact group 1) 0.08 mm² Litz wire cross-section max. Contact (Contact group 1) 8 A (for max. connection cross section) Rated current Contact (Contact group 1) 48 V AC Rated voltage Contact (Contact group 1) 48 V AC 74 V DC		
Contact surface material Insertion/withdrawal cycles 50 Connection method Solder cup Contact switching type Socket Application Signal Number of positions 12 Direction of rotation Connection profile 12 Number Contact (Contact group 1) Litz wire cross-section min. Contact (Contact group 1) Litz wire cross-section max. Contact (Contact group 1) Rated voltage Contact (Contact group 1) Rated voltage Contact (Contact group 1) Rated voltage Contact (Contact group 1) Solder cup Solder cup Counter direction Counter direction Counter direction 12 12 12 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Coding	N
Insertion/withdrawal cycles Connection method Solder cup Contact switching type Socket Application Signal Number of positions 12 Direction of rotation Counter direction Connection profile 12 Number Contact (Contact group 1) Litz wire cross-section min. Contact (Contact group 1) Litz wire cross-section max. Contact (Contact group 1) Rated current Contact (Contact group 1) Rated voltage Contact (Contact group 1) Rated voltage Contact (Contact group 1) Solder cup Solder cup Solder cup Socket 12 Counter direction 12 12 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18	Contact material	CuZn
Connection method Contact switching type Socket Application Signal Number of positions 12 Direction of rotation Counter direction Connection profile 12 Number Contact (Contact group 1) 12 Diameter Contact (Contact group 1) 1 mm Litz wire cross-section min. Contact (Contact group 1) 1 mm² Rated current Contact (Contact group 1) Rated voltage Contact (Contact group 1) 8 A (for max. connection cross section) Rated voltage Contact (Contact group 1) 48 V AC	Contact surface material	Ni/Au
Contact switching type Application Signal Number of positions 12 Direction of rotation Connection profile 12 Number Contact (Contact group 1) Diameter Contact (Contact group 1) Litz wire cross-section min. Contact (Contact group 1) Litz wire cross-section max. Contact (Contact group 1) Rated current Contact (Contact group 1) Rated voltage Contact (Contact group 1) 8 A (for max. connection cross section) Rated voltage Contact (Contact group 1) 48 V AC	Insertion/withdrawal cycles	50
Application Signal Number of positions 12 Direction of rotation Counter direction Connection profile 12 Number Contact (Contact group 1) 12 Diameter Contact (Contact group 1) 1 mm Litz wire cross-section min. Contact (Contact group 1) 0.08 mm² Litz wire cross-section max. Contact (Contact group 1) 1 mm² Rated current Contact (Contact group 1) 8 A (for max. connection cross section) Rated voltage Contact (Contact group 1) 48 V AC	Connection method	Solder cup
Number of positions Direction of rotation Counter direction Connection profile 12 Number Contact (Contact group 1) Diameter Contact (Contact group 1) Litz wire cross-section min. Contact (Contact group 1) Litz wire cross-section max. Contact (Contact group 1) Rated current Contact (Contact group 1) Rated voltage Contact (Contact group 1) 48 V AC	Contact switching type	Socket
Direction of rotation Connection profile 12 Number Contact (Contact group 1) Diameter Contact (Contact group 1) Litz wire cross-section min. Contact (Contact group 1) Litz wire cross-section max. Contact (Contact group 1) Rated current Contact (Contact group 1) Rated voltage Contact (Contact group 1) 48 V AC	Application	Signal
Connection profile 12 Number Contact (Contact group 1) 12 Diameter Contact (Contact group 1) 1 mm Litz wire cross-section min. Contact (Contact group 1) 0.08 mm² Litz wire cross-section max. Contact (Contact group 1) 1 mm² Rated current Contact (Contact group 1) 8 A (for max. connection cross section) Rated voltage Contact (Contact group 1) 48 V AC	Number of positions	12
Number Contact (Contact group 1) Diameter Contact (Contact group 1) Litz wire cross-section min. Contact (Contact group 1) Litz wire cross-section max. Contact (Contact group 1) Rated current Contact (Contact group 1) Rated voltage Contact (Contact group 1) 48 V AC	Direction of rotation	Counter direction
Diameter Contact (Contact group 1) Litz wire cross-section min. Contact (Contact group 1) Litz wire cross-section max. Contact (Contact group 1) Rated current Contact (Contact group 1) Rated voltage Contact (Contact group 1) 48 V AC	Connection profile	12
Litz wire cross-section min. Contact (Contact group 1) Litz wire cross-section max. Contact (Contact group 1) Rated current Contact (Contact group 1) Rated voltage Contact (Contact group 1) 48 V AC	Number Contact (Contact group 1)	12
Litz wire cross-section max. Contact (Contact group 1) Rated current Contact (Contact group 1) Rated voltage Contact (Contact group 1) 48 V AC	Diameter Contact (Contact group 1)	1 mm
Rated current Contact (Contact group 1) Rated voltage Contact (Contact group 1) 8 A (for max. connection cross section) 48 V AC	Litz wire cross-section min. Contact (Contact group 1)	0.08 mm²
Rated voltage Contact (Contact group 1) 48 V AC	Litz wire cross-section max. Contact (Contact group 1)	1 mm²
	Rated current Contact (Contact group 1)	8 A (for max. connection cross section)
74 V DC	Rated voltage Contact (Contact group 1)	48 V AC
		74 V DC
Rated surge voltage 1.5 kV	Rated surge voltage	1.5 kV
Overvoltage category III	Overvoltage category	III
Degree of pollution 3	Degree of pollution	3

Housing

Thread type	M23
Type of locking	Screw locking mechanism
Pg screw connection	Pg9
Housing material	GD-Zn
Degree of protection (plugged in)	IP65
	IP67
	IP68

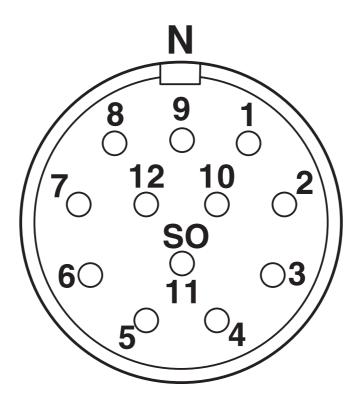


https://www.phoenixcontact.com/us/products/1599649



Drawings

Schematic diagram



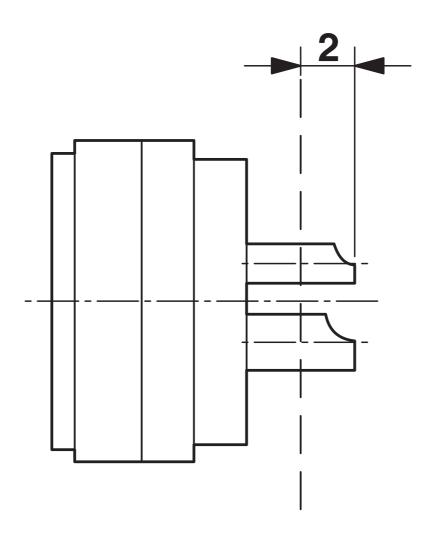
Connector pin assignment



1599649

https://www.phoenixcontact.com/us/products/1599649

Schematic diagram



Dimensional drawing



1599649

https://www.phoenixcontact.com/us/products/1599649

Classifications

UNSPSC

UNSPSC 21.0 39121413



1599649

https://www.phoenixcontact.com/us/products/1599649

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements Exemption	Yes 6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com